

2211 West Meadowview Rd. Boone Building, Suite 101 Greensboro, NC 27407

tel: 336/323-0092 fax: 336/323-0093

www.JoyceEngineering.com

March 8, 2013

Ms. Jackie Drummond North Carolina Department of Environment and Natural Resources Division of Waste Management, Solid Waste Section 1646 Mail Service Center Raleigh, North Carolina 27699-1646



RE: Landfill Gas Monitoring Report
First Quarter Sampling Event of 2013
Granville County – Butner Closed MSW Landfill, Permit No. 39-02
JOYCE Project No. 660.1201.12, Task No. 06

## Dear Ms. Drummond:

Attached please find the Landfill Gas Monitoring Log, Gas Probe Location Map, and EMRF for the monitoring event that occurred on March 6, 2013 at the Granville County Butner Landfill (Permit number 39-02) for inclusion in your records. Methane was detected above the LEL in GP-2 so MW-5 was monitored and no methane was detected; therefore, methane does not appear to have migrated to the facility boundary.

Landfill gas monitoring will continue on a quarterly basis for the Butner Landfill. If you have any questions, please contact me or Dan Girdner at (336) 323-0092. Thank you.

Sincerely,

JOYCE ENGINEERING

Van Burbach, Ph.D., P.G. Technical Consultant

Attachments

Copy: Jason Falls, Granville County

IRF Hill P-2			
you			

H		data ta adada Was (Na)	Doc/Event	. <i>u</i> .	
DENR USE ONLY: Paper Re	eport Electronic Data - Email CD (	data loaded: Yes / No )	Environmental Monitoring		
Division of Waste Managem				Reporting Form	
	ation attached to it are "Public Records" nation by any person upon request (NC 0		al Statute 132-1. As su	ich, these documents are	
Instructions:	and individually manitared unit				
<ul> <li>Please type or print led</li> </ul>	each individually monitored unit. gibly.				
<ul> <li>Attach a notification table must include a prelimina</li> </ul>	le with values that attain or exceed NC 2 ary analysis of the cause and significance	the groundwater standard e of each value. (e.g. nati	is or NC 2B surface wa urally occurring, off-site	ater standards. The notification e source, pre-existing	
condition, etc.).  Attach a notification table	e of any groundwater or surface water va	alues that equal or excee	ed the reporting limits.		
<ul> <li>Attach a notification tabl facility (NCAC 13B .1629</li> </ul>	le of any methane gas values that attain	or exceed explosive gas	s levels. This includes	any structures on or nearby the	
<ul> <li>Send the original signed</li> </ul>	d and sealed form, any tables, and Elect	ronic Data Deliverable to	o: Compliance Unit, NO	DENR-DWM, Solid Waste	
	ice Center, Raleigh, NC 27699-1646.				
Solid Waste Monitoring Da	ata Submittal Information (laboratory, consultant, facility owner)	<u>.</u>			
Joyce Engineering, li		•			
	IIC.				
	a formatting. Include data preparer's		er and E-mail addres	s:	
Name: G. Van Ness Burbach, F		ne: (336) 323-0092			
E-mail: _vburbach@joyceengine	ering.com				
	E. The Address	Facility Describe	NC Landfill Rule:	Actual sampling dates (e.g.,	
Facility name:	Facility Address:	Facility Permit #	(.0500 or .1600)	October 20-24, 2006)	
Butner Landfill	State Road 1004 Butner, NC	39-02	.1600	March 6, 2013	
Environmental Status: (Check a Initial/Background Monitorial		X Assessment N	Monitoring	Corrective Action	
Type of data submitted: (Check at Groundwater monitoring data Groundwater monitoring data Surface water monitoring d	ata from monitoring wells ata from private water supply wells	Methane gas mor Corrective action Other(specify)			
Yes, a notification of values monitoring points, dates, ar preliminary analysis of the	face water standards were exceeded. s exceeding a groundwater or surface w nalytical values, NC 2L groundwater star cause and significance of any concentral s exceeding an explosive methane gas I ane gas limits.	ndard, NC 2B surface wa tion.	ter standard or NC Sol	lid Waste GWPS and	
Certification	he information reported and stateme	nte made on this data	cubmittal and attach	ments are true and correct	
Furthermore, I have attached collevels, and a preliminary analysis	ne information reported and statement omplete notification of any sampling is of the cause and significance of co ing any false statement, representation	values meeting or exc incentrations exceedin	eeding groundwater g groundwater stand	standards or explosive gas lards. I am aware that there	
G. VanNess Burbach, Ph.D., PG	Technical Consultant	(336)	323-0092		
Facility Representative Name (Print)	Title	(Area Co	de) Telephone Number	BANNA	
Signature Signature	Ly 5 3/	/ <b>7</b> // <b>3</b> Date	Affix NC Licensed	Professional Geologist Seal	
2211 W. Meadowview Rd., Ste. 101	I Greensboro, NC 27407		CE		
Facility Representative Address			EP 13	49   =	
C-0782			S Coin	GIS AT &	
NC PE Firm License Number (if app	plicable effective May 1, 2009)		NESS	BURDA	

Revised 6/2009

## Landfill Gas Monitoring Data Log

39-02  D. Girdner/ JOYCE 01/07/13  15% CH4, exp. 5-2013 29.23 In-Hg	Notes	approx. 150 ft. SE of GP-2 toward property line
er: late: ias Typ	EL nit	
Numb nel: tion D tion G	%LEL	100 104 100 100 100 100 100
Permit Number: Personnel: Calibration Date: Calibration Gas Type: Barometer:	$CH_4$ $CH_4$ %LEL %Vol) (%LEL) Limit	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
unty	CH4 (%Vol)	0.0 0.0 0.0 0.2 0.0 0.0
Granville Co	Time Pumped (sec.)	60 60 60 60 60 60 60 60
Butner Landfill, Granville County 03/06/13  GEM 2NAV GM13915/11 3/6/2013 13:20  Cloudy, 50° F, recent rain	Probe Pressure (InWg)	0.00 0.07 0.04 0.05 - - 0.13
ber:	Time	1611 1608 1540 1515 1520 1525 1525 1505
Serial Num e & Time: aditions:	Instr. purged	***************************************
Facility Name: Date of Sampling: Gas Monitor Type & Serial Number: Field Calibration Date & Time: General Weather Conditions:	Location or LFG Well ID	GP-1 GP-2 GP-2A (MW-5) GP-3 GP-4 GP-5 GP-6 GP-6 GP-6

Abbreviations:

LEL= Lower Explosive Limit
N/A = not applicable
In Wg = inches of water column
GP = Gas Monitoring Probe

